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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/558,237	04/24/2000		Chae-Man Lim	678-475 (P9174)	8647
28249	7590	12/21/2004		EXAMINER	
DILWORT 333 EARLE		RRESE, LLP	HARPER, KEVIN C		
UNIONDALE, NY 11553				ART UNIT	PAPER NUMBER
				2666	

DATE MAILED: 12/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		O N					
	Application No.	Applicant(s)					
	09/558,237	LIM, CHAE-MAN					
Office Action Summary	Examiner	Art Unit					
	Kevin C. Harper	2666					
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	o correspondence address					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a i - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS fro tute, cause the application to become ABANDOI	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
2a) ☐ This action is FINAL . 2b) ☐ T	his action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are with description 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	Irawn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Exam	iner.						
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to by the	e Examiner.					
Applicant may not request that any objection to the		• •					
Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	•	•					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documed 2. Certified copies of the priority documed 3. Copies of the certified copies of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the papplication from the International Bured * See the attached detailed Office action for a line of the p	ents have been received. ents have been received in Applicationity documents have been received (PCT Rule 17.2(a)).	ation No ived in this National Stage					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summa						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date I Patent Application (PTO-152)					

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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 8, 2004 has been entered.

Response to Arguments

Applicant's arguments filed November 8, 2004, have been fully considered but they are not persuasive.

- 1. Applicant argued that Ostberg must receive a BCCH channel. However, the purpose of the invention of Ostberg is to perform a cell search without receiving the BCCH (col. 4, lines 1-11; col. 6, lines 10-13; col. 9, lines 9-11).
- 2. Applicant argued that correlation and detection of the cell search is not performed in two steps in Ostberg. However, correlation and detection operations are performed in two separate steps (fig. 4, step 420 and step 440).

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-12 and 14-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Ostberg et al. (US 6,504,830).

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- 3. Regarding claims 1, 3, 5, 7, 9 and 14, Ostberg discloses a signal transmitting apparatus (fig. 1A, item 120; abstract, lines 1-4) and receiving apparatus (fig. 1A, item 130). The apparatus has an inherent primary synchronization channel transmitter (fig. 2B, PSC in Perch 1) for placing synchronization information in several slots and an inherent secondary synchronization channel transmitter (fig. 2B, SSC in Perch 2) for having a group specific code at the beginning of each slot (col. 5, lines 44-46; col. 6, lines 63-67; col. 7, lines 1-20) with a specific code (fig. 4, items 420-440) which represents one base station in the group. Correlation and detection operations for a cell search are performed in two separate steps (fig. 4, step 420 and step 440). Mobile stations perform the cell search without receiving the BCCH (col. 4, lines 1-11; col. 6, lines 10-13; col. 9, lines 9-11).
- 4. Regarding claims 2, 4, 6 and 8, the apparatus has a broadcast channel (fig. 3A) that is mapped to the SSC (abstract, lines 6-7; col. 6, lines 22-25 and 30-35).
- 5. Regarding claims 10, 12, 15 and 17, a group specific code detecting unit comprises a correlator for calculating the correlation in each slot (col. 7, lines 46-62) and a base station group detector for determining a base station group using specific codes corresponding to a maxima of correlations detected (col. 7, lines 14-20).
- Regarding claims 11 and 16, the group detector comprises an inherent shift operator for comparing correlations to an inherent comma free code table (col. 8, lines 15-24) and a maximum correlation detector for detecting a synchronization code corresponding to a maximum cyclic shifted correlation (col. 7, lines 14-20).

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 13 and 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Ostberg et al., as applied to claim 12 or 17 above, in further view of Nystrom et al. (US 6,526,091).

Regarding claims 13 and 18, Ostberg discloses using Gold sequences (col. 3, lines 46-49) and does not disclose correlating Hadamard sequences by a Hadamard transformation. Nystrom discloses using a Hadamard sequence instead of a Gold sequence in a multi-user system (col. 10, lines 1-3 and 25-29). Therefore, it would have been obvious to one skilled the art at the time the invention was made to correlate a Hadamard sequence in the invention of Ostberg in order to use a less complex transformation.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:30 AM to 8:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 571-272-3174. The centralized fax number for the Patent Office is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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(EBC) at 866-217-9197 (toll-free).

Kevin C. Harper

December 13, 2004

SEEMA S. RAO 12/13/09
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